

Product Data Sheet

Oxygen Compatible OC Three PTFE Paste Joint and Thread Sealer



Solutions for critical and demanding applications where no flammability, compatibility with oxygen and resistance to aggressive chemicals are essential.

OC Three PTFE Paste Joint and Thread Sealer is an aqueous based PTFE formulation. It is a homogenous white paste that penetrates thread convolutions more effectively, and more safely, than PTFE tape. Tested, approved and certified by BAM for gaseous and liquid oxygen service. Use in extreme temperatures (-400° F to +500° F) and Mid Vacuum specifications to 10⁻³ Torr. **OC Three** is especially capable for sealing oxygen and acetylene cylinder valves. Easy to apply from its 4 oz. (113.4 gram) squeeze tube with extended nipple and resealing cap. A superior PTFE thread sealant paste that contains these optimal properties:

Water Soluble / Anti-Galling / Anti-Corrosive
Anti-Seize / Chemically Inert / Non-Toxic
Non-Flammable / Non-Migrating / Odorless

OC Three is compatible with many aggressive chemicals including:

Acetylene	Helium	Potassium perchlorate
Aluminum chloride	Hydrogen	Potassium persulfate
Ammonium nitrate	Hydrogen bromide	Propylene oxide
Ammonium perchlorate	Hydrogen peroxide (<i>all concentrations</i>)	Silane
Antimony trichloride	Hydrogen sulfide	Silicone tetrachloride
Bromine	Hydriodic acid	Sodium hypochlorite
Calcium hypochlorite	Iodine	Sodium perchlorate
Carbon dioxide	Muriatic acid	Sulfur dioxide
Chlorosilanes	Nitric acid	Sulfur trioxide
Chlorosulfonic acid	Nitrogen oxides	Sulfuric acid
Chromic acid	Oleum	Titanium tetrachloride
Ethylene	Oxygen (<i>liquid & gaseous</i>)	
Fluorine (<i>gaseous</i>)	Phosphoric acid	

9002 84 0	Polytetrafluoroethylene
13463 67 7	Titanium dioxide
9003 01 4	Carboxy vinyl polymer
7732185	H ₂ O (water)

MPT™ INDUSTRIES

Product Data Sheet

Oxygen Compatible OC Five Paste and OC Seven Grease



Solutions for critical and demanding applications where no flammability, compatibility with oxygen and resistance to aggressive chemicals are essential.

OC Five Paste and **OC Seven Grease** are blended formulations consisting of PTFE particles and Halocarbon® oil, producing a superior sealant that is chemically inert and environmentally safe. Both products have been tested and certified by BAM for gaseous and liquid oxygen service.

OC Five and **OC Seven** can be used in High Vacuum 10^{-7} Torr applications where exposure to corrosive gases is probable. They are superior lubricants which provide leak tight sealing in a wide range of vacuum requirements. These off-white homogenous grease and paste formulations provide unique sealing and lubricating solutions, as their properties remain unaltered over wide temperature ranges – from cryogenic through thermally stable to +450°F. Both are non-flammable, non-migrating, non-toxic, odorless and waterproof as well as anti-corrosive, anti-galling, anti-seize, dielectric and lubricating.

Cost effective for liquid oxygen, liquid nitrogen, cryogenic and vacuum applications to prevent and reduce component and equipment failures, maintenance or downtime.

Available in 2 oz. (57 gram) and 16 oz. (454 gram) jars with resealable lid for ease of use and storage.

Not recommended for aluminum against aluminum applications. Do not use with concentrated alkalis, fluorine (*liquid*) or chlorine trifluoride (*liquid*).

OC Five Paste and **OC Seven Grease** are compatible with many aggressive chemicals including:

Acetylene	Chromic acid	Nitric acid
Ammonium hydroxide	Ethylene	Nitrogen trifluoride
Ammonium nitrate	Fluorine (<i>gaseous</i>)	Oleum
Ammonium perchlorate	Fuming nitric oxide	Oxygen (<i>liquid & gaseous</i>)
Antimony trichloride	Helium	Phosphoric acid
Boron trifluoride	Hydrogen	Potassium perchlorate
Bromine	Hydrogen bromide	Potassium persulfate
Bromine trifluoride (<i>gaseous</i>)	Hydrogen fluoride	Propylene oxide
Calcium hypochlorite	Hydrogen peroxide (<i>all concentrations</i>)	Silane
Carbon dioxide	Hydrogen sulfide	Silicone tetrachloride
Chlorine trifluoride (<i>gaseous</i>)	Hydriodic acid	Sodium
Chlorosilanes	Iodine	Sodium hydroxide (<i>all concentrations</i>)
Chlorosulfonic acid	Muriatic acid	Sulfur trioxide
		Sulfuric acid
		Titanium tetrachloride
		Uranium hexafluoride

MPT™
INDUSTRIES

6-B Hamilton Business Park

9002 83 9	Polychlorotrifluoroethylene
9002 84 0	Polytetrafluoroethylene
68611 44 9	Silicon dioxide aerogel